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Chapter 5 – Technical Construction and Renovation Standards

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232113 - Hydronic Piping

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SECTION 23 2113 – BOILERS

1.0 GENERAL

A. Section Includes:

1. Boilers (Steam, Condensing, Hydronic).
2. Oil/gas Boilers.

B. See Chapter 5, Division 01, Section 017700.1.1.B.1.i Closeout Procedures - Project Record Documents for equipment list requirements for all equipment provided in this section.

C. Applicable Codes - all are most current adopted edition

1. All boilers and installations thereto shall comply with Title XII of the New Hampshire Labor Law, Section 157-A: Boilers and Pressure Vessels.
2. Gas fired equipment installations shall conform to NFPA 54 and NFPA 58 as applicable.
3. Oil fired equipment installations shall conform to NFPA 30, NFPA 31, and the New Hampshire DES ENV – OR 300 as applicable.
4. All equipment shall be installed according to the manufacturer's installation instructions per NFPA 54, 9.1.1.2
5. Flues and chimneys shall comply with NFPA 211

D. Inspections/Permits

1. Permits required by the AHJ shall be obtained by the contractor for any new or upgraded installation.
2. Inspections for High Pressure (15 psi or greater and 400kBTU/hr) steam boilers shall be performed by a State Inspector and a Jurisdictional Consultant F/M Global before the equipment is placed in service as required by New Hampshire Title XII RSA Chapter 157-A.
3. Oil tanks and related piping changes shall be registered with and approved by a representative of the UNH Environmental Health and Safety office
4. Fuel fired equipment shall be inspected, as required according to Title XII RSA Chapter 157-A, by qualified personnel before said equipment is placed into service.

2.0 PRODUCTS

A. Steam Boiler Manufacturers:

1. Smith.
2. Weil McLain.
3. Cleaver Brooks

B. Hot Water Boiler Manufacturers (condensing and non-condensing):



1. Lochinvar.
 2. Laars
 3. Weil McLain
 4. Smith
 5. Buderus
- C. Oil Burner Manufacturers:
1. Beckett
 2. Riello
 3. Weil McLain

3.0 EXECUTION

- A. Owner's Operation Checklist – Contractor shall complete and submit Facilities Operations checklist for all Fired Heating Equipment NFPA 54/31 provided by UNH Facilities, see Attachment A
- B. Commissioning
1. All equipment shall be tested for fuel and/or vent product leaks and shall be properly tuned for normal operation.
 2. Maintenance staff shall be provided with product manuals and training as applicable, in addition any and all as built wiring diagrams for control circuitry.

END OF SECTION 23 2113